AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

measurement time

1. (currently amended): A method for measuring a <u>differential mode delay (DMD) of a</u> multimode optical fiber comprising:

monitoring a temperature change within a measurement time in a DMD measurement of the multimode optical fiber, during a measurement time of the DMD of the optical fiber;

measuring a change of temperature of the optical fiber during the measurement time; and controlling the temperature of the optical fiber such that an absolute value of the change of temperature of the optical fiber is maintained within a predetermined range during the

wherein the DMD measurement is carried out in an environment in which a magnitude of temperature change is controlled.

- 2. (currently amended): The method for measuring a <u>differential mode delay (DMD) of a multimode</u> optical fiber according to claim 1, wherein <u>the predetermined range is calculated such that a product of a the measurement time and a rate of temperature change during the measurement of the <u>measured-DMD of the optical fiber is 0.4°C or less.</u></u>
- 3. (currently amended): The method for measuring a <u>differential mode delay (DMD) of a multimode</u> optical fiber according to claim 1, wherein <u>the predetermined range is calculated</u>

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<u>such that</u> a product of the measurement time and a rate of temperature change during the measurement of the <u>measured-DMD of the optical fiber is 0.3°C or less.</u>

- 4. (currently amended): The method for measuring a <u>differential mode delay (DMD) of a multimode optical fiber according to claim 1, wherein the predetermined range is calculated such that the measurement is carried out in an environment in which a rate of temperature change of the ambient environment is controlled to $\pm 1.0^{\circ}$ C/hour or less.</u>
- 5. (currently amended): The method for measuring a <u>differential mode delay (DMD) of a multimode</u> optical fiber according to claim 1, wherein the measurement time is <u>set within not more than 10 minutes</u>.
- 6. (currently amended): The method for measuring a <u>differential mode delay (DMD) of a multimode</u> optical fiber according to claim 1, wherein the measurement time is <u>set withinnot more than</u> 3 minutes.
- 7. (currently amended): The method for measuring a <u>differential mode delay (DMD) of a multimode optical fiber according to claim 1, wherein the predetermined range is calculated such that the measurement is carried out in an environment in which a rate of temperature change of the ambient environment is controlled to $\pm 1.0^{\circ}$ C/hour or less and the measurement time is set within not more than 10 minutes.</u>

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8. (currently amended): The method for measuring a <u>differential mode delay (DMD) of a multimode</u> optical fiber according to claim 1, wherein the DMD measurement is carried out afterfurther comprising:

<u>be measured</u> in the <u>a</u> measurement environment until <u>a the</u> temperature of the optical fiber substantially equals a temperature of the measurement environment environment <u>before carrying out the DMD</u> measurement.

- 9. (new): The method for measuring a differential mode delay (DMD) of a multimode optical fiber according to claim 1, wherein the measurement time is not more than 5 minutes.
- 10. (new): The method for measuring a differential mode delay (DMD) of a multimode optical fiber according to claim 1, wherein the predetermined range is calculated such that a rate of temperature change of the ambient environment is controlled to ± 5.0 °C/hour or less